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| relean, what and Arthur H. Steinhaus | |
| 8 PROBLEM AND LONG MAN LANGE POR MINER AND MINER 8 | |
| 2. Title: | Land you will be selected by the wife of the state of the state of the selected of the selecte |
| Professor of Physi ology | determed designation of the theorement at the |
| 3. Institution | which within the mention of |
| | 自然的最终,是是不是一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一 |
| Addresseone Williams College | eo 15. Thinois where the the project. |
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| 一次是是一个,他们就是这个人的一个人,但是一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的 | 已共作的特殊。在自然特征的基础的特殊。 |
| 4. Project or Subject Does tobacco smoke influence | |
| Addition Markedate we have shown that (1) tobacco smoke reduces spontaneous activity in | |
| in the white rat, (2) this reduction is roughly proportional to the amount of nicotine in | |
| the tobacco, (3) in castrates there is no reduction attributable to smoking, (4) we have indication that with the injection of male hormone the effect observed in normal rats can | |
| be reproduced in castrates, (5) the estral cyc | |
| is not modified by two months of exposure to to | bacco smoke. We would now like to do the |
| followings and the state of the | and the flower of the second o |
| 1. Repeat castrate study with graduated hormon | ne additions. |
| 2. Observe reginal amears in spayed rats with graduated hormone additions. | |
| 3. 5Developrizechnique entrechners adellatinosi sa | |
| "一个","我们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个 | the Market while the property of the same and the same an |
| | tivity of rats in fresh and smoke-laden air. |
| 2. Compare our mathed of producing and admini | stering cigarette smoke with that developed |
| | Currently we use continuous suction which |
| immemokes" one mg cigarette in 3-4 minutes in repeated at hourly intervals for twelve ho | |
| 3. Observe spontaneous activity in castrate m | |
| to determine a base line of activity and the | en observe increases due to the addition |
| of small graduated amounts of testosterone | or estrin. We would then determine what |
| levels of hormone administration are offse | t by smoking." |
| 4. Determine minimal amounts of estrin necess | ary to activate the vaginal cycle in spayed |
| rats and then determine if smoking is able | to offset the effect of such minimal amounts. |
| 5. Prepare for studies on man even while we are doing this animal work by perfecting our | |
| selves in methods of assaying the urinary steriods in man so as to determine if smoking will produce quantitative or qualitative changes in them. Within the first year was | |
| would seek to perfect our methods and perhaps get some indications of the effect of | |
| smoking. In a second year we should begin to get more conclusive data on the effect of | |
| smoking on the steriod picture in men. | |
| | |

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Source: https://www.industrydocuments.ucsf.edu/docs/ffvm0000

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7. Anticipated Duration of Work:

At least two years will be needed to clarify the questions raised, provided some positive findings turn up. If the experimental plans here a publicly of the experimental plans here to be a finding of the experimental plans here a publicly of the experimental plans here a publicly of the experimental plans here.

A three room completely detached laboratory with thermostatic control of temperature (no provision for cooling air). Standard laboratory equipment. Staff: Clayton F. Holoway, Assistant Professor, research chemist currently on summer assignment with Argonne Laboratory in steroid research.

Three graduate students -- two with one year of experience in the project.

Arthur H. Steinhaus, Professor of Physiology - Director of the project.

9. Additional Requirements. We now have one Coleman photoelectric colorimeters we may need as Colorimeters we may need as Colorimeters are spectrophotometer. This awould be a requirement for the seconds that years that it is a lightly that the condition of the seconds of the second of the seco

1. Boyers test from attack with Edward Looming activities.

10. Additional Information (Including relation of work to other projects and other sources of supply).

It is conceivable that from a study such as this one some clues may emerge concerning

Reprints of a preliminary report of our work are attached. The tobacco smoke, distributed of a preliminary report of our work are attached. The wind with the continuous smoke, distributed to the c

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Signature /s./ Arthur H. Steinhaus */
Director of Project ** 1919 3.8

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Bysiness Officer of the Institution; ala